INTERNATIONAL SEARCH REPORT

International application No. PCT/IB2004/002528

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC B23K 26/20, B23K 26/16, B23K 26/32

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 B23K, US Class. 228 /173

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Welding Journal Research Supplement, International Society for Optical Engineering Conference Proceeding

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used) Delphion "welding and laser and galvanized", Canadian Patent database "B23K and laser and galvanized"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO90/11161 (Behler et al.) 04 October 1990 (04.10.1990) Entire document	1-2
A	US 5626776 (Morris Jr.) 06 May 1997 (06.05.1997) Entire document	1-2
. A	US 6528756 B2 (Degawa et al.) 04 March 2003 (04.03.2003) Entire document	1-3
A	US 5104032 (Spiel et al.) 14 April 1992 (14.04.1992)	1-2
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Furtl	her documents are listed in the continuation of Box C.	Patent family members are listed in annex.		
* "A" "E" "L" "O"	Special categories of cited documents: "T" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the actual completion of the international-type search 07 December 2004 (07-12-2004)		Date of mailing of the international-type search report 24 January 2005 (24-01-2005)		
Name and mailing address of the ISA/ Commissioner of Patents Canadian Patent Office - PCT Ottawa/Gatineau KIA 0C9 Facsimile No. 1-819-953-9358		Authorized officer Hoan Huynh (819) 934-3467		

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/IB2004/002528

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO9011161	04-10-1990	DE3820848 A1 DE3844727 C2 DE3844856 A1 DE3909471 A1 WO9011161 A1	13-04-1989 07-12-1995 29-10-1992 27-09-1990 04-10-1990
US5626776	06-05-1997	US5454480 A US5626776 A	03-10-1995 06-05-1997
US6528756	04-03-2003	EP1184126 A2 JP2001276989 A JP2001276990 A JP2001276991 A US6528756 B2	06-03-2002 09-10-2001 09-10-2001 09-10-2001 04-03-2003
US5104032	14-04-1992	DE3933408 A1 EP0421091 A1 ES2048374T T3 JP2571976B2 B2 US5104032 A	30-08-1990 10-04-1991 16-03-1994 16-01-1997 14-04-1992